

**ANIMAL WITH SURGICALLY MODIFIED GASTROINTESTINAL TRACT
AND METHOD FOR STUDY OF WEIGHT REDUCTION**

Abstract of the Invention

5 The invention comprises an animal having a presurgical substantially normal
gastrointestinal tract, which gastrointestinal tract has been surgically modified such
that postsurgically there is a reduction of the volume of the stomach of the
gastrointestinal tract, a reduction in the digestive area of the gastrointestinal tract, a
reduction in the co-mingling of food with gastric, biliary and pancreatic juices, a
10 reduction in the presurgical gastric output of the peptide ghrelin, a reduction in the
threshold for satiety, a permanent reduction in presurgical weight, and an induction of
a condition of malabsorption. The surgically-altered animal may be adapted for use as
an animal model in a method wherein the biological mechanisms underlying obesity
and its reduction may be investigated; and, in which the molecular biological effects
15 of surgical intervention for obesity may be investigated; and, in which the efficacy of
noninvasive alternatives to surgical intervention for obesity may be investigated.

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